

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P643537

Luminaire Tested: ML5615LSVWFL9FS1E - 594TBZB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643537  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-103)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 594TBZB - 900LM - 3000K  
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

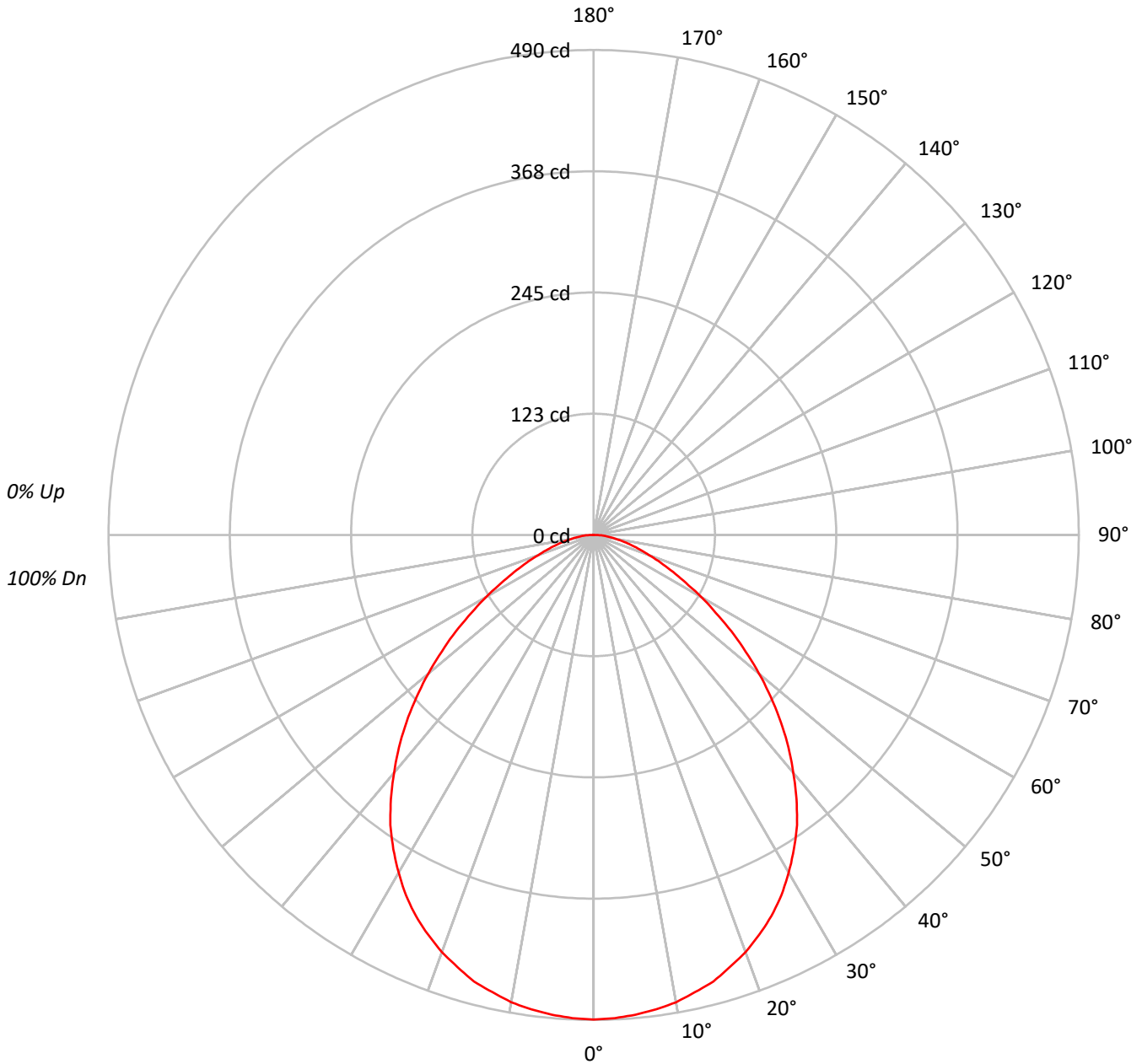
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1096.4 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87																			
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74																			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64																			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56																			
5	79	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	49																			
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44																			
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39																			
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35																			
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32																			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	38657
5°	38559
10°	38428
15°	38174
20°	37686
25°	37009
30°	35914
35°	34500
40°	32337
45°	29864
50°	26785
55°	23369
60°	19814
65°	16531
70°	13779
75°	11926
80°	10274
85°	10235

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 29864 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.2	4.2
10°-20°	131.5	12.0
20°-30°	195.3	17.8
30°-40°	222.8	20.3
40°-50°	205.6	18.8
50°-60°	152.0	13.9
60°-70°	88.7	8.1
70°-80°	41.8	3.8
80°-90°	12.6	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	373.0	34.0
0°-40°	595.8	54.3
0°-60°	953.4	87.0
0°-90°	1096.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1096.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	490	
5°	487	46
15°	467	132
25°	425	195
35°	358	223
45°	268	206
55°	170	152
65°	88	89
75°	39	42
85°	11	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	489.7
2.5°	488.7
5°	486.6
7.5°	483.5
10°	479.4
12.5°	473.2
15°	467.1
17.5°	457.8
20°	448.6
22.5°	437.2
25°	424.9
27.5°	410.5
30°	394.0
32.5°	376.5
35°	358.0
37.5°	336.4
40°	313.8
42.5°	291.1
45°	267.5
47.5°	242.8
50°	218.1
52.5°	193.4
55°	169.8
57.5°	146.1
60°	125.5
62.5°	104.9
65°	88.5
67.5°	73.0
70°	59.7
72.5°	48.4
75°	39.1
77.5°	29.8
80°	22.6
82.5°	16.5
85°	11.3
87.5°	7.2
90°	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)